

326. J1
636.2

FILE COPY FOREST INSECT LABORATORY,
STANFORD UNIVERSITY CALIFORNIA.

^S
Insect Control
Deschutes.

Second Report

Statistical Summary
of the
1925 Western Pine Beetle Losses
in the
Yellow Pine of the
Metolius Region,
Deschutes National Forest, Oregon,
April, 1926.

A. J. Jaenicks
A. J. Jaenicks,
U. S. Forest Service,
Portland, Oregon.

Table of Contents

	<u>Page</u>
Foreword.....	1
Section 33, T. 12 S., R. 9 E.....	3
Section 27, T. 13 S., R. 10 E.....	4
Section 21, T. 13 S., R. 9 E.....	5
Section 32, T. 13 S., R. 9 E.....	6
Section 12, T. 14 S., R. 8 E.....	7
Section 16, T. 14 S., R. 9 E.....	8
Section 26, T. 14 S., R. 9 E.....	9
Section 32, T. 14 S., R. 9 E.....	10
Summary of 1925 losses.....	11
Comparison of 1924 winter trees and 1925 summer trees.....	12

Foreword

Of the 13 sections cruised in May and June, 1925, 8 sections were covered for the second time during the latter part of September and early October, 1925. The purposes of this second cruise were to determine:-

1. Whether sufficient infestation remained in the region after the mortality of December, 1924 to justify the consideration of immediate control work.

2. The effect of the mortality of December, 1924 on the overwintering 1924 generation of the western pine beetle as reflected in the volume of timber successfully infested by the next generation of the beetles, namely, the summer generation of 1925.

Inasmuch as this second survey of the Metolius region was made in late September and early October, 1925, only the loss figures for the summer, 1925 generation can be considered as complete. The data on the overwintering 1925 generation are necessarily decidedly incomplete because of the normal green foliage of most of the trees infested by the overwintering generation.

The 8 sections which were covered by the first cruise (May and June, 1925) and covered for the second time in September and October, 1925, are shown in color on the

map bound with the statistical summary of the first cruise.

It was fortunately possible to again secure the services of A. D. Cannavina and M. W. Stone as spotters. Inasmuch as the same spotters did all the spotting for both cruises, I believe that the resulting data are more accurately comparable than would otherwise be the case. W. J. Perry and L. L. Colvill did the compass work and the mapping on the second survey.

The survey methods were identical with those used in the first cruise and the same data were collected.

At the end of this report, there is a summary of the 1925 beetle losses in terms of the number of 1925 summer trees, and the incomplete number of 1925 winter trees. This is followed by a table of comparison between the number of overwintering 1924 trees and the summer 1925 trees for the 8 sections covered by the two one hundred per cent cruises.

1925 Loss - Number of Trees
 Section 33, T. 12 S., R. 9 E.
 General Location - West of Heising's.
 Recruise of September 28-29, 1925.

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>
20		1
23	1	
27	1	1
31	1	1
37		1
38	2	
39	1	
40	1	
47	1	
59		1

(2) - This number refers to
 the map legend and map
 accompanying the first
 statistical report.

Summer trees - 8
 Winter trees - 5
13

See page 5 of First Report for results of first
 cruise.

1925 Loss - Number of Trees
Section 27, T. 13 S., R. 10 E.
 General Location - Northeast of Black Butte.
 Recruise of September 26-27, 1925.

(7)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
14	2	2	
15	1	2	
17	1		
18	3	1	
19	1	1	
20		3	
21	3	1	
22	2		
23	3		
24	1	1	
25	3		
27		1	
28		1	
33	1		
			Summer trees - 21
			Winter trees - 13
			<u>34</u>

See page 7 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 21, T. 13 S., R. 9 E.
 General Location - One mile South of Hansen's.
 Recruise of September 24-25, 1925.

(4)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
16	1		
22	1	2	
23	1		
25	1		
27		1	
29	1		
33		1	
34		1	
35	1		Summer trees - 7
37	1		Winter trees - 6
40		1	<u>13</u>

See page 8 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 32, T. 13 S., R. 9 E.
 General Location - West of Black Butte.
 Recruise of October 1-2, 1925.

(6)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
13		1	
15	1		
16	3	1	
17	1	1	
18	1		
19	1	1	
20	1		
22	1	1	
23		1	
24	1	1	
25		1	
32	1	1	
33	1		
36	1		
37		1	Summer trees - 14
40		1	Winter trees - 11
53	1		<u>25</u>

See page 10 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 12, T. 14 S., R. 8 E.
 General Location - Cache Creek
 Recruise of September 30-
 October 1, 1925.

(8)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>		
12		1		
14	2			
15	2	3		
16	1			
17	1	1		
18	1	1		
20		2		
21	2	2		
22		1		
23	1			
24	1	1		
25	1			
26	3	1		
27		1		
28	1	1		
29		1		
30		1		
31	1	1		
32	1		Summer trees -	21
34	1		Winter trees -	19
36		1		<u>40</u>
38	1			
39	1			

See page 11 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 16, T. 14 S., R. 9 E.
 General Location - South of Black Butte
 Recruise of September 25-26, 1925.

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
14		1	
17		2	
18		1	
19		1	
20	1		
21	1		
22		1	
23		1	
24	1	1	
25		2	
26	1	2	
27	2		
28	1	2	
30	1		
32		1	Summer trees - 9
33		1	Winter trees - 17
34	1	1	<u>26</u>

See page 12 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 26, T. 14 S., R. 9 E.
 General Location - Southeast of Graham Place
 Recruise of September 29, 1925.

(10)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
19	1	1	
20	1		
21	1		
22	1	1	
25		1	
26	1	2	
27	1		
28	1		
29	1		
32	2		
33	1	1	
37		1	
38	1	1	Summer trees - 13
39		1	Winter trees - 11
40	1	1	<u>24</u>
50		1	

See page 13 of First Report for results of first cruise.

1925 Loss - Number of Trees
Section 32, T. 14 S., R. 9 E.
 General Location - Vicinity of Four Mile Butte.
 Recruise of October 3, 1925.

(11)

<u>Diameter</u>	<u>Summer</u>	<u>Winter</u>	
16		1	
18		1	
19	1		
21	1		
22		1	
23	1	1	
31		1	
32	1		Summer trees - 4
33		1	Winter trees - 7
42		1	<u>11</u>

See page 14 of First Report for results of first cruise.

Summary
of
1925 Losses*

<u>Map No.</u>	<u>Section</u>	<u>1925 Summer Trees</u>	<u>1925 Winter Trees</u>	<u>Total</u>
2	Sec. 33, T. 12 S., R. 9 E.	8	5	13
7	Sec. 27, T. 13 S., R. 10 E.	21	13	34
4	Sec. 21, T. 13 S., R. 9 E.	7	6	13
6	Sec. 32, T. 13 S., R. 9 E.	14	11	25
8	Sec. 12, T. 14 S., R. 8 E.	21	19	40
9	Sec. 16, T. 14 S., R. 9 E.	9	17	26
10	Sec. 26, T. 14 S., R. 9 E.	13	11	24
11	Sec. 32, T. 14 S., R. 9 E.	4	7	11
	AVERAGE	12	11	23

*The number of winter trees in this table probably represents not more than half of the winter trees actually on the various sections in view of the fact that the spotting was done in late September and early October, 1925, when many of the winter trees still had their normal green foliage.

Comparison of
1924 Winter Trees
and
1925 Summer Trees.

<u>Map No.</u>	<u>Section</u>	<u>1924 Winter Trees</u>	<u>1925 Summer Trees</u>
2	Sec. 33, T. 12 S., R. 9 E.	30	8
7	Sec. 27, T. 13 S., R. 10 E.	106	21
4	Sec. 21, T. 13 S., R. 9 E.	67	7
6	Sec. 32, T. 13 S., R. 9 E.	34	14
8	Sec. 12, T. 14 S., R. 8 E.	115	21
9	Sec. 16, T. 14 S., R. 9 E.	91	9
10	Sec. 26, T. 14 S., R. 9 E.	72	13
11	Sec. 32, T. 14 S., R. 9 E.	85	4
<u>AVERAGE</u>		<u>75</u>	<u>12</u>

Note: The number of "1924 winter trees" was secured in the May and June, 1925 survey. The number of "1925 summer trees" resulted from the survey of September and October 1925.